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ABSTRACT:

PROBLEM TO BE SOLVED: To smooth the sliding of the sliding contact of a small-sized motor and to prevent the contact defect of the contact so as to prolong the life of the contact by using chain satd. fatty 'acid as the essential component of a solder flux to be used for soldering near the contact described above.

SOLUTION: Terminals are welded near to the brush and commutator of the small-sized motor used in a range of working voltage of 0.5 to 30V and working current of 10 to 500mA. At this time, the essential component of the solder flux for soldering is formed of the chain satd. fatty acid.

Octadecanoic acid,
hexadecanoic acid or the hexadecanoic acid and the
octadecanoic acid are used
as the chain satd. fatty acid. The solder flux used near
the contact is eluted
by the vapor phase lubricant of polyhydric alcohol, by
which a thin film is
formed on the contact part surface and a lubricating film
is formed. This film
prevents the adsorption of arom. hydrocarbon, such as
toluene and xylene
evaporated from the adhesives used for apparatus on the
contact part surface,
thereby preventing the formation of electrically insulating
blackening matter
and improving the lubricity of the sliding surface of the
brush are made
possible.

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